

# Technical Data Sheet



## RecombiMAb anti-mouse PD-L1 (B7-H1) (D265A)

**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

**Lot Number:** Lot Specific\*  
**Volume:** Lot Specific\*  
**Concentration:** Lot Specific\* (generally 4 to 11 mg/ml) \*  
**Total Protein:** Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

**Catalog Number:** CP001  
**Clone:** 10F.9G2™-CP001  
**Isotype:** Mouse IgG1, κ  
**Recommended Isotype Control(s):** RecombiMAb mouse IgG1 (D265A) isotype control, anti-hen egg lysozyme  
**Recommended Dilution Buffer:** InVivoPure pH 7.0 Dilution Buffer  
**Mutations:** D265A  
**Immunogen:** Mouse CD274  
**Reported Applications:** *in vivo* PD-L1 blockade\*  
Immunofluorescence\*  
Immunohistochemistry (frozen)\*  
Flow cytometry\*  
Western blot\*  
\*Reported for the original rat IgG2b 10F.9G2 antibody

**Formulation:** PBS, pH 7.0  
Contains no stabilizers or preservatives

**Endotoxin:** ≤0.5EU/mg (≤0.0005EU/μg)  
Determined by LAL gel clotting assay

**Purity:** ≥95%  
Determined by SDS-PAGE

**Sterility:** 0.2 μm filtration

**Production:** Purified from HEK293 cell supernatant in an animal-free facility

**Purification:** Protein A

**Aggregation:** <5%  
Determined by SEC

**RRID:**  
**Molecular Weight:** 150 kDa

### Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

### Description

The 10F.9G2™-CP001 monoclonal antibody is a recombinant chimeric version of the original 10F.9G2™ antibody. The variable domain sequences are identical to the original 10F.9G2™ but the constant region sequences have been switched from rat IgG2b to mouse IgG1. The 10F.9G2™-CP001 antibody also contains a D265A mutation in the Fc fragment

rendering it unable to bind to endogenous Fcγ receptors. The 10F.9G2™-CP001 antibody reacts with mouse PD-L1 (programmed death ligand 1) also known as B7-H1 or CD274. PD-L1 is a 40 kDa type I transmembrane protein that belongs to the B7 family of the Ig superfamily. PD-L1 is expressed on T lymphocytes, B lymphocytes, NK cells, dendritic cells, as well as IFNγ stimulated monocytes, epithelial cells and endothelial cells. PD-L1 binds to its receptor, PD-1, found on CD4 and CD8 thymocytes as well as activated T and B lymphocytes and myeloid cells. Engagement of PD-L1 with PD-1 leads to inhibition of TCR-mediated T cell proliferation and cytokine production. PD-L1 is thought to play an important role in tumor immune evasion. Induced PD-L1 expression is common in many tumors and results in increased resistance of tumor cells to CD8 T cell mediated lysis. In mouse models of melanoma, tumor growth can be transiently arrested via treatment with antibodies which block the interaction between PD-L1 and PD-1. The 10F.9G2™ antibody has been shown to block the interaction between PD-L1 and PD-1 and between PD-L1 and B7-1 (CD80).

## Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

## Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

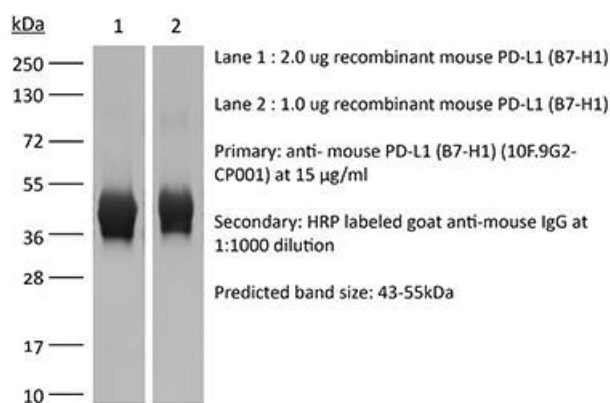
## Application References

For a complete list of references, visit [https://bioxcell.com/cp001?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/cp001?bxcs=9k1b3a#tab_references) or scan the QR code below.



## Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



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*Not for resale.*

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